

CLAIMS

What is claimed is:

1. A firearm having a frame, a reciprocating slide and a barrel assembly with a forward barrel portion and a rear chamber block, comprising:
 - a camblock assembly having a camblock that is secured to a guide rod;
 - a front flange of the camblock having a plurality of flange surfaces, the front flange being positioned proximate a rear portion of the guide rod and proximate a forward portion of the camblock; and
 - a plurality of bearing surfaces of the frame which are fitted for engagement with at least a portion of the flange surfaces of the front flange.
2. The firearm of claim 1 in which the front flange has a curved bottom flange surface which contacts a complimentary curved surface of the frame.
3. The firearm of claim 1 in which the front flange has at least one lateral extension portion with a top surface, the frame having at least one rail member with a bottom rail surface, and in which the top surface of the lateral extension portion are fitted for engagement with the bottom rail surface.
4. The firearm of claim 1 in which the front flange has a top flange surface, a bottom flange surface and two side sections positioned between the top flange surface and bottom flange surface, the two side sections each having a lateral extension portion, an upper extension portion and a vertical sidewall positioned between the upper extension portion and the lateral extension portion.

5. The firearm of claim 4 in which the frame has a pair of rail members which each mate with a corresponding side section of the front flange such that the pair of rail members each have a bottom rail surface which engages a top surface of the lateral extension portions and the pair of rail members each have a top rail surface that engages a bottom surface of the upper extension portions.

6. The firearm of claim 5 in which the frame is constructed of a non-metallic material.

7. The firearm of claim 1 in which the camblock has a camming projection and a reinforcement wall positioned between the front flange and the camming projection.

8. The firearm of claim 7 in which a lower region of the chamber block of the barrel assembly has a chamber reinforcement wall positioned between and interconnecting a front projection and a rear projection of the chamber block.

9. A firearm having a frame, a reciprocating slide and a barrel assembly, comprising:
a camblock assembly having a camblock and a guide rod in which the guide rod is secured to the camblock; and

a shelf member positioned at a front end of the camblock and extending in a forward direction to resist movement of the reciprocating slide during recoil.

10. The firearm of claim 9 in which the shelf member extends from a lower front section of the camblock and is positioned to make contact with a lower portion of the reciprocating slide during recoil.

11. The firearm of claim 10 in which the shelf member is located below a rear portion of the guide rod.

12. The firearm of claim 11 in which the shelf member extends in a direction substantially parallel with the guide rod.
13. The firearm of claim 11 in which the camblock has a front flange connected with a rear end of the guide rod and in which the shelf member is connected to a lower portion of the front flange.
14. The firearm of claim 10 in which the shelf member has a curved bottom surface which sits in a complimentary curved surface of the frame.
15. The firearm of claim 14 in which the lower portion of the reciprocating slide has a curved bottom surface which sits in and moves along the curved surface of the frame during recoil.
16. A firearm having a frame, a barrel assembly, a reciprocating slide with a guide rod bore having an outer end and an interior end, comprising:
- a guide rod which supports a recoil spring; and
 - a buffer spring positioned about the guide rod and positioned inside the recoil spring.
17. The firearm of claim 16 in which the buffer spring is a coiled flat wire buffer spring and in which a front end of the coiled flat wire buffer spring engages at least a portion of a surrounding area about the interior end of the guide rod bore during recoil of the reciprocating slide.
18. The firearm of claim 17 in which a front portion of the guide rod is positioned in the guide rod bore and including a camblock assembly having a camblock connected with a rear portion of the guide rod such that the buffer spring is positionable about the guide rod proximate to the connection with the camblock.

19. The firearm of claim 18 in which a back end of the coiled flat wire buffer spring engages a front portion of the camblock during recoil.

20. The firearm of claim 19 in which the camblock has a front flange with a plurality of flange surfaces that matingly engage at least a portion of corresponding bearing surfaces of the frame and in which the back end of the coiled flat wire buffer spring contacts the front flange during recoil.

21. The firearm of claim 20 in which the camblock has a shelf member connected to a lower portion of the front flange, the shelf member extends towards a front end of the slide and is positioned below the guide rod and the coiled flat wire buffer spring which is constructed of spring tempered steel material.

22. The firearm of claim 20 in which the front portion of the guide rod tapers from a narrow portion to a wider portion to contain the flat wire buffer spring on the guide rod.

23. A firearm having a frame, reciprocating slide, a barrel assembly with a forward barrel portion and a rear chamber block, and a slide stop latch comprising:

a camblock assembly having a camblock and a guide rod, the camblock having a transverse opening which receives a slide stop pin of the slide stop latch; and

a detent mechanism positioned within the camblock which engages a surface of the slide stop pin to hold the slide stop pin in place.

24. The firearm of claim 23 in which the slide stop pin has a groove about at least a portion of the surface of the slide stop pin such that the detent mechanism is spring biased into engagement with the groove.

25. The firearm of claim 24 in which the detent mechanism includes a wire form extending across a top portion of the transverse opening proximate a side of the camblock opposite to where the slide stop pin is inserted into the camblock.

26. The firearm of claim 25 in which the wire form includes an intermediate portion positioned between two looped portions, the camblock having a pair of retainment bores on opposite sides of the transverse opening such that the retainment bores house the looped portions of the wire form, and the camblock having a channel extending between the retainment bores for receipt of the intermediate portion of the wire form which engages the groove of the slide stop pin.

27. A firearm having a frame and a reciprocating slide, comprising:
a slide stop latch having a slide stop pin which is insertable through the frame; and
an elongated wire positioned in an interior portion of the slide stop latch, the elongated wire having one end engaging the frame such that the elongated wire biases the slide stop latch to be held in a down position.

28. The firearm of claim 27 in which the one end of the elongated wire is bent in a direction that is substantially in alignment with the slide stop pin and is positioned for receipt in a corresponding bore of the frame, and in which another end of the elongated wire is held within the slide stop latch.

29. The firearm of claim 28 in which the interior portion of the slide stop latch has a tapered channel which houses the elongated wire, the tapered channel having a relatively wide portion proximate the one end of the elongated wire and a relatively narrow portion proximate the other end of the elongated wire.